


**INFORMATION DISCLOSURE CITATION**

Attorney Docket No.: GC836-US	Serial No.:10/591,852
Applicant: WEYLER et al.	
Filing Date: September 5, 2006	Group: Unknown
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**US PATENT DOCUMENTS**

Examiner's Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
A1	4,302,544	11.24.81	Young et al.	435	253	10.15.79
<del>A1</del>	4,450,235	05.22.84	Dean et al.	435	253	04.21.82
<del>A1</del>	4,683,195	07.28.87	Mullis et al.	435	6	02.07.86
A4	4,683,202	07.28.87	Mullis et al.	435	91	10.25.85
A5	4,760,025	07.26.88	Estell et al.	435	222	05.29.84
<del>A5</del>	4,914,031	04.03.90	Zukowski et al.	435	222	04.10.87
<del>A1</del>	4,965,188	10.23.90	Mullis et al.	435	6	06.17.87
A8	4,980,288	12.25.90	Bryan et al.	435	222	12.14.87
<del>A6</del>	5,023,171	06.11.91	Ho et al.	435	6	08.10.89
A10	5,208,158	05.04.93	Bech et al.	435	219	07.17.90
<del>A10</del>	5,217,878	06.08.93	Van Eekelen et al.	435	69.1	02.29.88
A12	5,264,366	11.23.93	Ferrari et al.	435	252.31	11.25.91
<del>A10</del>	5,310,675	05.10.94	Estell et al.	435	320.1	12.10.91
A14	5,322,770	06.21.94	Gelfand	435	6	12.22.89
A15	5,336,611	08.09.94	Van Eekelen et al.	435	221	10.11.89
<del>A10</del>	5,399,283	03.21.95	Stabinsky et al.	252	174.12	01.09.91
<del>A10</del>	5,441,882	08.15.95	Estell et al.	435	222	05.09.90
<del>A10</del>	5,482,849	01.09.96	Branner et al.	435	222	12.20.91
A19	5,631,217	05.20.97	Branner et al.	510	320	09.13.95
A20	5,665,587	09.09.97	Aaslyng et al.	435	221	06.07.95
A21	5,700,676	12.23.97	Bott et al.	435	221	06.07.95
A22	5,741,694	04.21.98	Hastrup et al.	435	227	06.07.95

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Examiner's Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
A23	5,858,757	01.12.99	Von Der Osten et al.	435	221	11.11.93
A24	5,880,080	03.09.99	Amory et al.	510	320	03.31.95
A25	US 6,197,567 B1	03.06.01	Aaslyng et al.	435	221	03.12.97
A26	US 6,218,165 B1	04.17.01	Estell et al.	435	221	02.23.99
A27	US 2002/0065403	05.30.02	Eikmanns et al.	536	23.1	12.07.99
A28	US 2004/241831 A1	12.02.04	Park et al.	435	252.33	04.02.04

## FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
B1	EP 0 134 048 B2	14.08.96	EP			
B2	EP 0 723 011 B	03.07.02	EP			
B3	WO 99/20726	13.07.89	WO			
B4	WO 99/20726	29.04.99	WO			
B5	WO 99/20769	29.04.99	WO			
B6	WO 99/20770	29.04.99	WO			
B7	WO 03/083125	09.10.03	WO			
B8	WO 03/070963	28.08.03	WO			

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Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.	
C1	Albertini et al. "Amplification of a Chromosomal Region in <i>Bacillus subtilis</i> ," <i>Journal of Bacteriology</i> , 162(3):1203-1211 (1985).	
C2	Altschul et al., "Basic Local Alignment Search Tool," <i>Journal of Molecular Biology</i> , 215:403-410 (1990).	
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C3	Altschul et al., "Local Alignment Statistics," <i>Meth. Enzymol.</i> , 266:460-480 (1996).
C8	Arigoni et al., "The SpoIIE Phosphatase, the Sporulation Septum and the Establishment of Forespore-Specific Transcription in <i>Bacillus subtilis</i> : a Reassessment," <i>Molecular Microbiology</i> , 31(5):1407-1415 (1999).
C5	Aunstrup et al., "Proteases from Alkalophilic <i>Bacillus</i> Species," <i>Proc. IV IFS: Ferment. Technol. Today</i> , 299-305 (1972).
C6	Caldwell et al., "Correlation Between <i>Bacillus subtilis</i> <i>scdC</i> Phenotype and Gene Expression Determined Using Microarrays for Transcriptome Analysis," <i>Journal of Bacteriology</i> , 183(24):7329-7340 (2001).
C7	Canosi et al., "PBSX Induction in a Temperature-sensitive Mutant of <i>Bacillus subtilis</i> ," <i>J. Gen. Virol.</i> , 39:81-90 (1978).
C8	Chamberlin et al., "New RNA Polymerase from <i>Escherichia coli</i> Infected with Bacteriophage T7," <i>Nature</i> , 228:227-231 (1970).
C9	Chang et al., "High Frequency Transformation of <i>Bacillus subtilis</i> Protoplasts by Plasmid DNA," <i>Molec. Gen. Genet.</i> , 68:111-115 (1979).
C10	Christianson et al., "Peptide Mapping of Subtilisins as a Practical Tool for Locating Protein Sequence Errors During Extensive Protein Engineering Projects," 223:119-129 (1994).
C11	Dartois et al., "A <i>sinR</i> -like Gene Precedes the <i>estB</i> Locus in <i>Bacillus subtilis</i> ," Seventh International Conference on <i>Bacillus</i> , Institute Pasteur p. 56 (1993).
C10	DeBoer et al., "The <i>lac</i> Promoter: A Functional Hybrid Derived from the <i>trp</i> and <i>lac</i> Promoters," <i>Proc. Natl. Acad. Sci. USA</i> , 80:21-25 (1983).
C10	De Saizieu et al., "Microarray-Based Identification of a Novel <i>Streptococcus Pneumoniae</i> Regulon Controlled by an Autoinduced Peptide," <i>Journal of Bacteriology</i> , 182(17):4696-4703 (2000).
C10	Devereux et al., "A Comprehensive Set of Sequence Analysis Programs for the VAX," <i>Nucleic Acids Research</i> , 12(1):387-395 (1984).
C15	Fahnestock et al., "Expression of the Staphylococcal Protein A Gene in <i>Bacillus subtilis</i> by Gene Fusions Utilizing the promoter from a <i>Bacillus amyloliquefaciens</i> $\alpha$ -Amylase Gene," <i>Journal of Bacteriology</i> , 165(3):796-804 (1986).
C16	Farrell, <i>RNA Methodologies</i> , (2 <sup>nd</sup> ed.) Academic Press, San Diego, California pp. 81 (1993).
C17	Ferrari et al., <i>Bacillus Expression: A Gram-Positive Model. Gene Expression Systems: Using Nature for the Art of Expression</i> , pp. 65-94 (1999).
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C19	Fischer et al., "Introduction of Plasmid pC194 into <i>Bacillus thuringiensis</i> by Protoplast Transformation and Plasmid Transfer," <i>Arch. Microbiol.</i> , 139:213-217 (1984).
C20	Guerout-Fleury et al., "Antibiotic-resistance Cassettes for <i>Bacillus subtilis</i> ," <i>Gene</i> , 167:335-336 (1995).
C20	Harwood and Cuttings, <i>Molecular Biological Methods for Bacillus</i> , John Wiley and Son, New York, NY, p. 23, (1990).
C20	Henner et al., "The <i>Bacillus subtilis</i> Chromosome," <i>Microbiological Reviews</i> , 44(1):57-82 (1980).
C29	Hoch et al., "Transformation and Transduction in Recombination-defective Mutants of <i>Bacillus subtilis</i> ," <i>Journal of Bacteriology</i> , 93(6):1925-1937 (1967).
C27	Hoch et al., "Chromosomal Location of Pleiotropic Negative Sporulation Mutations in <i>Bacillus subtilis</i> ," <i>Genetics</i> , 73:215-228 (1973).
C25	Holubova et al., "Transfer of Liposome-Encapsulated Plasmid DNA to <i>Bacillus subtilis</i> Protoplasts and Calcium-Treated <i>Escherichia coli</i> Cells," <i>Folia Microbiol.</i> , 30:97-100 (1985).
C28	Hsia et al., "Active-Site Titration of Serine Proteases Using a Fluoride Ion Selective Electrode and Sulfonyl Fluoride Inhibitors," <i>Analytical Biochemistry</i> , 242:221-227 (1996).
C27	Kacian et al., "A Replicating RNA Molecule Suitable for a Detailed Analysis of Extracellular Evolution and Replication," <i>Proc. Nat. Acad. Sci. USA</i> , 69(10):3038-3042 (1972).
C28	Karlin et al., "Applications and Statistics for Multiple High-Scoring Segments in Molecular Sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 90:5873-5877 (1993).
C29	Kramer et al., "The Gapped Duplex DNA Approach to Oligonucleotide-directed Mutation Construction," <i>Nucleic Acids Research</i> , 12(24):9441-9456 (1984).
C30	Kuhn and Torres, "Cre/loxP Recombination System and Gene Targeting," <i>Meth. Mol. Biol.</i> , 180:175-204 (2002).
C31	Kunst et al., "The Complete Genome Sequence of the Gram-positive Bacterium <i>Bacillus subtilis</i> ," <i>Nature</i> , 390:249-256 (1997).

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C38	Maddox et al., "Elevated Serum Levels in Human Pregnancy of a Molecule Immunochemically Similar to Eosinophil Granule Major Basic Protein," <i>J. Exp. Med.</i> , 158:1211-1226 (1983).
C33	May et al., "The <i>dhb</i> Operon of <i>Bacillus subtilis</i> Encodes the Biosynthetic Template for the Catecholic Siderophore 2,3-Dihydroxybenzoate-Glycine-Threonine Trimeric Ester Bacillibactin," <i>The Journal of Biological Chemistry</i> , 276(10):7209-7217 (2001).
C34	McDonald et al., "Plasmid Transformation of <i>Bacillus sphaericus</i> 1593," <i>Journal of General Microbiology</i> , 130:203-208 (1984).
C38	Morinaga et al., "Improvement of Oligonucleotide-Directed Site-Specific Mutagenesis Using Double-Stranded Plasmid DNA," <i>Biotechnology</i> , 2:636-639 (1984).
C36	Moszer et al., "Subtilist: A Relational Database for the <i>Bacillus subtilis</i> Genome," <i>Microbiology</i> , 141:261-268 (1995).
C37	Msadek et al., "Signal Transduction Pathway Controlling Synthesis of a Class of Degradative Enzymes in <i>Bacillus subtilis</i> : Expression of the Regulatory Genes and Analysis of Mutations in <i>degS</i> and <i>degU</i> ," <i>Journal of Bacteriology</i> , 172(2):824-834 (1990).
C38	Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins," <i>J. Mol. Biol.</i> , 48:443-453 (1970).
C39	Olmos et al., "Effects of the <i>sinR</i> and <i>degU32</i> (Hy) Mutations on the Regulation of the <i>aprE</i> Gene in <i>Bacillus subtilis</i> ," <i>Mol. Gen. Genet.</i> , 253:562-567 (1997).
C40	Palmeros et al., "A Family of Removable Cassettes Designed to Obtain Antibiotic-resistance-free Genomic Modifications of <i>Escherichia coli</i> and Other Bacteria," <i>Gene</i> , 247:255-264 (2000).
C41	Palva, "Molecular Cloning of $\alpha$ -amylase Gene from <i>Bacillus Amyloliquefaciens</i> and its Expression in <i>B. subtilis</i> ," <i>Gene</i> , 19:81-87 (1982).
C42	Pearson et al., "Improved Tools for Biological Sequence Comparison," <i>Proc. Natl. Acad. Sci. USA</i> , 85:2444-2448 (1988).
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C44	Priest, "Extracellular Enzyme Synthesis in the Genus <i>Bacillus</i> ," <i>Bacteriological Reviews</i> , 41(3):711-753 (1977).
C45	Riedel et al., "Characterization of the Phosphoenolpyruvate Carboxykinase Gene From <i>Corynebacterium Glutamicum</i> and Significance of the Enzyme for Growth and Amino Acid Production," <i>Journal of Molecular Microbiology and Biotechnology</i> , Vol. 3, No. 4, pp. 573-583, Horizon Scientific Press, Wymondham, Great Britain (2001).

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C46	Saunders et al., "Use of Chromosomal Integration in the Establishment and Expression of <i>bla</i> <sub>Z</sub> , a <i>Staphylococcus aureus</i> $\beta$ -Lactamase Gene, in <i>Bacillus subtilis</i> ," <i>Journal of Bacteriology</i> , 157(3):718-726 (1984).
C47	Scotti et al., "A <i>Bacillus subtilis</i> Large ORF Coding for a Polypeptide Highly Similar to Polyketide Synthases," <i>Gene</i> , 130:65-71 (1993).
C48	Seaman et al., "Inducible Phages of <i>Bacillus subtilis</i> ," <i>Biochemistry</i> , 3(5):607-612 (1964).
C49	Smith et al., "Comparison of Biosequences," <i>Advances in Applied Mathematics</i> , 2:482-489 (1981).
C50	Smith et al., "Protoplast Transformation in Coryneform Bacteria and Introduction of an $\alpha$ -Amylase Gene from <i>Bacillus amyloliquefaciens</i> into <i>Brevibacterium lactofermentum</i> ," <i>Applied and Environmental Microbiology</i> , 51(3):634-639 (1986).
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C52	Stickler et al., "Bacteriophage-like Particles Released from <i>Bacillus subtilis</i> after Induction with Hydrogen Peroxide," <i>Virology</i> , 26:142-161 (1965).
C50	Takemaru et al., "Complete Nucleotide Sequence of a Skin Element Excised by DNA Rearrangement During Sporulation in <i>Bacillus subtilis</i> ," <i>Microbiology</i> , 141:323-327 (1995).
C50	Trieu-Cuot et al., "Nucleotide Sequence of the <i>Streptococcus faecalis</i> Plasmid Gene Encoding the 3'5'-aminoglycoside Phosphotransferase Type III," <i>Gene</i> , 23:331-341 (1983).
C55	Vorobjeva et al., "Transformation of <i>Bacillus megaterium</i> Protoplasts by Plasmid DNA," <i>FEMS Microbiology Letters</i> , 7:261-263 (1980).
C50	Wang et al., "Expression and Secretion of Human Atrial Natriuretic $\alpha$ -factor in <i>Bacillus subtilis</i> Using the Subtilisin Signal Peptide," <i>Gene</i> , 69:39-47 (1988).
C57	Ward, "Proteinases," Fogarty (ed.) <i>Microbial Enzymes and Biotechnology</i> , Applied Science, London, pp. 251-317 (1990).
C50	Wells et al., "Cloning, Sequencing, and Secretion of <i>Bacillus amyloliquefaciens</i> Subtilisin in <i>Bacillus subtilis</i> ," 11(22):7911-7925 (1983).
C59	Wu et al., "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> , 4:560-569 (1989).
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C61	Zheng, "Genes of the <i>sbo-alb</i> Locus of <i>Bacillus subtilis</i> are Required for Production of the Antilisterial Bacteriocin Subtilosin," <i>Journal of Bacteriology</i> , 181(23):7346-7355 (1999).	
C62	Zukowski, "Production of Commercially Valuable Products," Doi and McGloughlin (eds.) <u><i>Biology of Bacilli: Applications to Industry</i></u> , Butterworth-Heinemann, Stoneham, MA, pp. 311-337 (1992).	
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